

Supplementary Table I. Associations between baseline characteristics and incident, clinical AAAs in minimally adjusted model* in ARIC, 1987 to 2011.

Baseline characteristics	Hazard Ratio (95% CI)*
Age, years (≤ 10 years follow-up)	
45-49	1
50-59	6.68 (2.42, 18.5)
60-64	17.5 (6.37, 48.0)
P for linear trend	<0.0001
Age, years (>10 years follow-up)	
44-49	1
50-59	2.52 (1.90, 3.33)
60-69	3.83 (2.84, 5.19)
P for linear trend	<0.0001
Race	
African American	1
White	1.67 (1.33, 2.11)
P for difference	<0.0001
Sex	
Women	1
Men	3.20 (2.68, 3.83)
P for difference	<0.0001
Smoking status	
Never smoker	1
Former smoker	2.83 (2.16, 3.71)
Current smoker	8.39 (6.47, 10.9)
P for linear trend	<0.0001
Packyears (≤ 10 years follow-up)	
0 or never	1
Packyears, T1 (0.1 - 15.0)	7.01 (1.92, 25.6)
Packyears, T2 (15.2 - 33.8)	16.9 (5.11, 55.8)
Packyears, T3 (34.0 - 242.6)	33.3 (10.4, 106.6)
P for linear trend	<0.0001
Packyears (>10 years follow-up)	
0 or never	1
Packyears, T1 (0.1 - 15.0)	1.71 (1.19, 2.45)
Packyears, T2 (15.2 - 33.8)	4.63 (3.45, 6.21)
Packyears, T3 (34.0 - 188.0)	6.95 (5.23, 9.23)
P for linear trend	<0.0001
Hypertension	
No	1
Yes	1.52 (1.29, 1.80)
P for difference	<0.001
PAD	
No	1
Yes	2.53 (1.74, 3.68)
P for difference	<0.0001
Diabetes	
No	1
Yes	0.71 (0.51, 0.97)
P for difference	0.03
Height, cm	
T1 (< 163)	1
T2 (164 - 172)	1.23 (0.93, 1.63)
T3 (173 - 199)	1.67 (1.21, 2.30)
P for linear trend	0.002
HDL-C, mg/dL	
T1 (<42.4)	1
T2 (42.4 - 55.9)	0.66 (0.55, 0.80)
T3 (56.0 - 163.0)	0.47 (0.37, 0.61)
P for linear trend	<0.001

LDL-C, mg/dL	
T1 (<119.6)	1
T2 (119.6 – 151.8)	1.48 (1.18, 1.86)
T3 (151.9 – 504.6)	1.79 (1.44, 2.23)
P for linear trend	<0.0001
Total cholesterol, mg/dL	
T1 (<194.7)	1
T2 (195.7 – 228.6)	1.13 (0.91, 1.40)
T3 (229.6 – 593.1)	1.48 (1.21, 1.81)
P for linear trend	0.0002
Triglycerides, mg/dL	
T1 (<88)	1
T2 (89 – 136)	1.25 (1.01, 1.56)
T3 (137 – 1926)	1.57 (1.28, 1.94)
P for linear trend	<0.0001

CI=confidence interval, T1=tertile 1, T2=tertile 2, T3=tertile 3;

*Hazard Ratio: adjusted for age, sex, and race.

Supplementary Table II. Associations between baseline characteristics in 1987-89 and ultrasound AAAs* detected in 2011-2013 at Visit 5 in minimally adjusted model†

Baseline characteristics	Odds Ratio (95% CI)†
Age, years	
45-49	1
50-	1.33 (0.75, 2.37)
P for difference	0.33
Race	
African American	1
White	1.97 (0.91, 4.29)
P for difference	0.09
Sex	
Women	1
Men	5.49 (3.01, 10.04)
P for difference	<0.0001
Smoking status	
Never smoker	1
Former smoker	2.15 (1.03, 4.52)
Current smoker	5.74 (2.71, 12.1)
P for linear trend	<0.0001
Packyears	
0 or never	1
Packyears, T1 (0.1 – 10.0)	1.26 (0.48, 3.28)
Packyears, T2 (10.2 – 26.0)	3.17 (1.47, 6.83)
Packyears, T3 (26.1 – 135.0)	5.23 (2.55, 10.7)
P for linear trend	<0.0001
Hypertension	
No	1
Yes	0.95 (0.48, 1.88)
P for difference	0.88
PAD	
No	1
Yes	1.84 (0.25, 13.7)
P for difference	0.55
Diabetes	
No	1
Yes	0.93 (0.22, 3.93)
P for difference	0.93
Height, cm	
T1 (<163)	1
T2 (164 - 172)	1.23 (0.45, 3.37)
T3 (173 - 199)	6.79 (2.14, 21.6)
P for linear trend	0.001
HDL-C, mg/dL	
T1 (<44.0)	1
T2 (44.3 – 58.0)	0.82 (0.42, 1.58)
T3 (58.7 – 163.0)	0.73 (0.29, 1.82)
P for linear trend	0.50
LDL-C, mg/dL	
T1 (<116.0)	1
T2 (116.1 – 146.7)	1.67 (0.65, 4.27)
T3 (146.8 – 452.4)	3.85 (1.80, 8.24)
P for linear trend	0.01
Total cholesterol, mg/dL	
T1 (< 191.7)	1
T2 (191.8 – 222.7)	2.56 (1.14, 5.75)
T3 (223.7 – 531.2)	3.43 (1.65, 7.14)
P for linear trend	0.001
Triglycerides, mg/dL	
T1 (<81)	1

T2 (82 - 125)	5.60 (2.52, 12.5)
T3 (126 - 1562)	3.44 (1.52, 7.79)
P for linear trend	0.003

CI=confidence interval, T1=tertile 1, T2=tertile 2, T3=tertile 3;

*Excluding clinical AAAs detected by hospitalization/death or CMS records;

†Odds Ratio: adjusted for age, sex, and race.

Supplementary Table III. Association between longitudinal smoking status from Visit 1 through Visit 3/Visit 4* and AAA detected after Visit 3/Visit 4 in minimally adjusted model†

Longitudinal smoking status	HR (95% CI)†	p
Clinical AAA		
Never smoker	1	
Quitter before V1	2.14 (1.55, 2.97)	<0.0001
Recent quitter	4.94 (2.95, 8.27)	<0.0001
Continuous_smk	8.36 (6.12, 11.4)	<0.0001
P for linear trend		<0.0001
Asymptomatic AAA detected at Visit 5 ultrasound		
Longitudinal smoking status	OR (95% CI)†	
Never smoker	1	
Quitter before V1	1.61 (0.75, 3.46)	0.22
Recent quitter	3.20 (0.83, 12.4)	0.09
Continuous_smk	5.22 (2.32, 11.7)	<0.0001
P for linear trend		<0.0001

CI=confidence interval, HR=hazard ratio, V1=Visit 1, OR=odds ratio, Continuous_smk=continuous smoker;

*the last visit was Visit 3 if smoking information in Visit 4 was missing;

†HR/OR: adjusted for age, sex, and race at Visit 3/Visit 4.